FIRE LOSSES IN BRITISH COLUMBIA IN 1990

Province of
British Columbia

Ministry of
Municipal Affairs,
Recreation and Housing

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Fire Losses in British Columbia in 1990

Fifty one persons died and 464 were injured in 7,455 fires in 1990 that caused a total dollar loss of $171,481,379. Statistics for the past ten years are shown in Table 1 below.

Dollar losses for 1990 show a 5.3 per cent reduction from 1989 losses, which were the highest in the history of the province. The number of fires is also down, as are fire fatalities. Injuries, however, showed a marked increase, from 387 in 1989 to 464 in 1990, or 16.6 per cent.

The average loss per fire in 1990 was $23,002, down from $24,872 in 1989 but still well above the $15,933 per fire experienced in 1988.

There was an average of 2.38 fires per 1,000 persons in British Columbia, equaling the per thousand rate of 1989.

Fire Fatalities

- Twenty-six men, twenty women and five children lost their lives to fire in 1990.
- 16 of the fatalities (31 per cent) were persons over 60 years of age.
- 15 fatalities resulted from careless smoking, up from nine deaths from this cause in 1989. This is the most fatalities from careless smoking since 1987, when fifteen people also lost their lives to this cause.
- Four persons died as a result of intentionally set fires and one died in a fire that was suspected of being intentionally set.
- Seven persons who died in fires were suspected of being impaired by alcohol, drugs or medication. This is a marked improvement over 1989, when sixteen persons died from fire while impaired.

Residential Fires

Twenty-six per cent of all fires in 1990 were in one-and two-family dwellings, resulting in a total loss of $46.8 million. This is nearly the same as in 1989, when 29 per cent of all fires were in one- and two-family dwellings and the loss was $45.5 million.

Year	Number of Fires	$ Loss (millions)	$ Loss (millions) Adjusted by CPI to 1981 constant $	Number Injured	Number Killed
1990	**7,455**	**171.5**	**112.8**	**464**	**51**
1989	7,280	181.1	125.6	387	58
1988	7,499	119.6	86.6	380	59
1987	7,542	117.1	87.9	398	42
1986	7,667	109.8	84.9	343	58
1985	8,285	131.9	105.3	398	60
1984	7,237	108.9	89.7	396	79
1983	7,724	131.7	112.9	404	83
1982	7,623	157.3	142.3	375	73
1981	7,023	115.7	115.7	244	76

Table 1 - Fire Losses in British Columbia, 1981-1990

Fires in apartments increased from 497 in 1989 to 536 in 1990. Dollar losses in apartment fires increased from $9.6 million in 1989 to $12.2 million in 1990.

Together, these residential categories accounted for 33.5 per cent of all fires and 34.4 per cent of the toal dollar loss in the province.

The percentage of dollar loss represents a ten per cent increase from 1989, however, it is 5 per cent less than the experience in 1988, when losses in the category were 40 per cent of total losses.

Forty of the 51 fatalities, or 80 per cent, occurred in residential fires, including hotels and mobile homes. This is just one per cent less than 1989. However, an additional 3 deaths occurred in travel trailer fires, one occurred in a residential garage, and 4 people died in an apartment that was part of a mercantile business in which the property classification was reported as a dry goods store. Thus, a total of 49 persons died in what can be viewed as "residential" properties. Of the remaining two deaths, one occurred in a nightclub fire and one in an automobile fire. It is significant that no fire deaths occurred in industrial occupancy fires.

Nineteen of the 35 fire deaths in one-and two-family dwellings and apartments occurred between the hours of 10 p.m. and 8 a.m. This represents a shift in the hours during which fire deaths occurred; in 1989 41 of 47 deaths in these categories occurred between 10 p.m. and 8 a.m.

In 22 of the fires in which these 35 deaths occurred, no smoke alarm was installed. Only two deaths involved smoke alarms that did not function, one because of dead or missing batteries. In the remaining nine incidents smoke alarm operation could either not be determined or the alarm activated to no avail.

	1- & 2-family Dwelling	Apartment Building	
Total Number of Fires in Property Group	**1,962**	**536**	
Cooking Fires	533	119	
As a percentage of all fires in group	27.2	22.2	
As a percentage of total $ loss in property group	12.7	8.1	
Number of fatalities over total in property group	0/32	0/3	
Heating Equipment Fires	410	14	
As a percentage of all fires in group	21.0	2.6	*
As a percentage of total $ loss in property group	15.2	2.3	*
Number of fatalities over total in property group	3/32	0/3	
Smoking material fires	116	82	
As a percentage of all fires in group	5.9	15.3	*
As a percentage of total $ loss in property group	6.4	4.6	
Number of fatalities over total in property group	9/32	1/3	
Arson fires	155	122	
As a percentage of all fires in group	7.9	22.8	*
As a percentage of total $ loss in property group	11.2	19.0	*
Number of fatalities over total in property group	0/32	0/3	

Table 2 - Comparison of One- and Two-Family Dwellings and Apartment Fires. The asterisks highlight significant differences in fire experiences between one- and two-family dwellings and apartment buildings.

Igniting Object	Fires	Injured	Dead	$ Loss
Central heating unit	6	0	0	1,144,999
Space heater	55	0	0	1,854,870
Fireplace	74	0	0	712,255
Masonry Chimney	78	1	1	779,735
Factory-built metal chimney	43	0	0	873,940
Flue connector	11	0	0	466,968
Heating equipment, other	10	1	1	427,012
1990 Total	**277**	**2**	**2**	**6,259,779**
1989 Total	409	9	3	7,858,646

Table 3 - Igniting Objects for Solid-fuel Related Fires in One- and Two-Family Dwellings

Heating equipment fires accounted for 21 per cent of all fires in single-family dwellings but only 2.6 per cent of fires in apartment buildings. Of all heating equipment fires in one- and two-family dwellings, 72.3 per cent were caused by solid-fuel burning equipment. The igniting objects for these solid-fuel fires are shown in Table 3. This is a reduction of 18.7 per cent from 1989, which may indicate that solid-fuel is declining as a choice for heating fuel.

Smoker's material accounted for 5.9 per cent of one-and two-family dwelling fires and 15.3 per cent in apartment fires. This continues a relationship established in prior years. The comparable figures for 1989 were 7.6 per cent and 20.5 per cent and in 1990 the figures were 6.4 per cent and 20.3 per cent, respectively.

Educational Institutions

The number of fires in educational occupancies in 1990 was 74, remaining consistent with 1988 and 1989, when it was 71 in each year. Dollar losses in 1990 amounted to $2,420,051, about the same as 1989 when losses were $2,687,875. The number of fires in schools peaked in 1979 with 125 fires causing a loss of $9.8 million. Both the number of incidents and the amount of loss per fire have decreased dramatically in the intervening years.

Large Dollar Loss Fires

There were 42 fires in which individual losses were $500,000 or more, accounting for $61.3 million in losses, or 35.7 per cent of total losses from all fires. In 1989, large loss fires accounted for 45 per cent of the total dollar losses in the province.

The largest single loss in 1990 was $5 million at a sawmill in Fort St. James. The cause of this fire was not determined.

13 of the fires in this category resulted from arson or suspected arson, with losses of $12.7 million, or 20.7 per cent of the total losses in the category in 1990. In 1989 there were 46 large loss fires of which nine were arson or suspected arson, accounting for 13.3 per cent of the losses in the category. In 1988 there were 21 large loss fires that caused $27.8 million in losses. Eight of these fires were arson or suspected arson, causing $7.1 million of the total loss in large loss fires.

Large loss fires continue to make up less than one percent of all fires but continue to represent a very significant portion of total dollar losses in the province.

Act or Omission	Fires	Injured	Dead	$ Loss
Arson for financial gain	6	1	0	171,000
Arson as a cover-up crime	78	2	0	2,480,021
Arson - political, religious motive	2	0	0	122,207
Arson for revenge, spite	29	2	0	2,008,610
Arson - mental disorder, suicide	17	3	0	490,552
Arson - vandalism, mischief	351	11	0	4,417,412
Arson - intimidation	9	0	0	117,300
Arson - motive unknown/unclassified	467	21	4	12,458,360
Suspected arson - motive unknown or unclassified	526	14	1	15,041,420
Total	**1,485**	**54**	**5**	**37,306,822**

Table 4 - Breakdown of Arson and Suspected Arson Fires

Automobile Fires

Automobile fires continue to represent a significant portion of all fires in British Columbia. In 1990 a total of 2,529 fires resulted in a loss of $8.4 million. These fires accounted for 33.9 per cent of fires in the province and 4.9 per cent of total dollar losses. There were 2,252 automobile fires in 1989 with a dollar loss of $6.8 million.

Arson

Of the 7,455 fires in 1990, 1,485 were arson or suspected arson, or 20 per cent. The incidence of arson was almost identical in 1989, when it was 19.4 per cent.

Arson and suspected arson fires resulted in losses of $37.3 million, or 21.7 per cent of total losses.

The fraction of arson and suspected arson losses of total losses has been holding at about one-fifth over the past few years. It was 20 per cent in 1987, 19.8 per cent in 1988 and 15.7 per cent in 1989.

The amount of dollar loss due to arson and suspected arson has increased, from $23.6 million in 1987 to $23.8 million in 1988, $28.4 million in 1989 and $37.3 million in 1990.

The frequency of arson is heaviest in urban areas; 31 per cent of fires in the city of Vancouver were arson, compared to about 11 per cent in areas outside the lower mainland.

Sixty-five adults and 65 juveniles were charged in arson-related incidents in 1990 according to statistics provided by the Ministry of the Solicitor General. This represents a 20 per cent increase over the number of persons charged in 1989, with the juvenile component rising 38 per cent. An additional 47 juveniles were handled through informal proceedings in arson related incidents.

Rick Dumala, P. Eng.
Fire Commissioner

Fire Losses in Municipal Areas

Location Code	Municipality	Population	Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
VHM	100 Mile House	1,659	6	0	0	192,783	32,131	116.20	3.62
DAB	Abbotsford	17,558	91	10	0	1,887,270	20,739	107.49	5.18
VAL	Alert Bay	679	3	0	0	159,918	53,306	235.52	4.42
VAN	Anmore	668	1	0	0	9,000	9,000	13.47	1.50
CAR	Armstrong	2,837	8	0	0	90,011	11,251	31.73	2.82
VAS	Ashcroft	1,591	10	1	0	320,381	32,038	201.37	6.29
DBU	Burnaby	153,460	329	32	3	5,737,118	17,438	37.39	2.14
VBU	Burns Lake	1,626	9	0	0	52,780	5,864	32.46	5.54
VCA	Cache Creek	1,013	11	0	0	198,844	18,077	196.29	10.86
DCA	Campbell River	19,871	47	13	0	1,680,009	35,745	84.55	2.37
CCA	Castlegar	6,335	11	0	0	262,531	23,866	41.44	1.74
DCE	Central Saanich	13,118	13	7	0	364,950	28,073	27.82	.99
VCH	Chase	1,966	2	0	0	814	407	0.41	1.02
VCD	Chetwynd	2,718	6	0	0	345,147	57,525	126.99	2.21
DCH	Chilliwack	48,110	114	1	0	2,179,394	19,117	45.30	2.37
VCL	Clinton	685	2	0	0	86,000	43,000	125.55	2.92
DCO	Coldstream	7,441	6	0	0	376,382	62,730	50.58	.81
CCL	Colwood	13,081	18	1	0	34,881	1,938	2.67	1.38
TCO	Comox	7,745	3	0	0	2,318	773	0.30	.39
DCQ	Coquitlam	81,709	103	8	1	782,641	7,598	9.58	1.26
CCO	Courtenay	10,526	44	0	0	353,733	8,040	33.61	4.18
CCR	Cranbrook	15,138	21	1	0	603,224	28,725	39.85	1.39
TCR	Creston	3,960	15	2	1	295,762	19,717	74.69	3.79
VCU	Cumberland	2,037	1	0	0	52,000	52,000	25.53	.49
CDA	Dawson Creek	10,231	38	3	2	715,011	18,816	69.89	3.71
DDE	Delta	84,732	92	2	1	1,255,431	13,645	14.82	1.09
CDU	Duncan	4,118	33	4	0	1,021,982	30,969	248.17	8.01
DEL	Elkford	2,803	4	0	0	17,700	4,425	6.31	1.43
CEN	Enderby	1,820	7	0	0	374,865	53,552	205.97	3.85
DES	Esquimalt	17,205	20	2	1	305,983	15,299	17.78	1.16
VFL	Fraser Lake	1,158	5	1	0	16,993	3,399	14.67	4.32
CFE	Fernie	4,555	4	0	0	21,498	5,375	4.72	.88
VFO	Fort Nelson	3,292	14	0	0	56,556	4,040	17.18	4.25
VSJ	Fort St. James	1,921	13	0	1	5,345,844	411,219	2,782.84	6.77
CJO	Fort St. John	12,874	50	4	1	555,071	11,101	43.12	3.88
VFR	Fruitvale	1,832	1	0	0	2,500	2,500	1.36	.55
VGL	Gibsons Landing	3,236	15	0	0	233,796	15,586	72.25	4.64
VGO	Gold River	2,092	7	0	0	108,838	15,548	52.03	3.35
TGO	Golden	3,694	9	0	0	439,317	48,813	118.93	2.44
CGF	Grand Forks	3,393	9	1	0	57,902	6,434	17.07	2.65
VGI	Granisle	693	1	0	0	1,800	1,800	2.60	.69
CGR	Greenwood	752	2	0	0	8,300	4,150	11.04	2.66
VHH	Harrison Hot Springs	708	1	0	0	325	325	0.46	1.41
VHA	Hazelton	467	3	0	0	11,741	3,914	25.14	6.42
THO	Hope	3,276	8	0	0	58,646	7,331	17.90	2.44
DHO	Houston	3,501	8	1	0	170,576	21,322	48.72	2.29
DHH	Hudson's Hope	1,048	2	0	0	106,681	53,341	101.79	1.91

Location Code	Municipality	Population	Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
VIN	Invermere	2,072	8	0	0	1,675,425	209,428	808.60	3.86
CKA	Kamloops	62,802	120	19	0	1,782,248	14,852	28.38	1.91
VKA	Kaslo	840	3	0	0	128,900	42,967	153.45	3.57
CKE	Kelowna	70,598	118	0	3	2,990,170	25,340	42.35	1.67
DKE	Kent	4,265	18	2	0	367,208	20,400	86.10	4.22
VKE	Keremeos	874	6	0	0	358,252	59,709	409.90	6.86
CKI	Kimberley	6,004	12	1	0	70,939	5,912	11.82	2.00
DKI	Kitimat	10,502	34	3	0	54,652	1,607	5.20	3.24
TLA	Ladysmith	4,802	12	1	0	196,637	16,386	40.95	2.50
VLC	Lake Cowichan	2,028	9	0	0	859,348	95,483	423.74	4.44
CLA	Langley (City)	18,368	68	21	0	2,289,451	33,668	124.64	3.70
DLA	Langley (District)	62,520	159	6	0	5,355,438	33,682	85.66	2.54
VLI	Lillooet	1,718	12	0	0	2,375,435	197,953	1,382.67	6.98
VLB	Lions Bay	1,194	1	0	0	75,000	75,000	62.81	.84
VLL	Logan Lake	2,125	8	0	0	15,559	1,945	7.32	3.76
VLU	Lumby	1,174	5	0	0	58,606	11,721	49.92	4.26
DMA	Mackenzie	5,656	15	0	0	244,443	16,296	43.22	2.65
DMR	Maple Ridge	46,507	87	3	0	2,449,520	28,155	52.67	1.87
VMA	Masset	1,544	1	0	0	187	187	0.12	.65
DMT	Matsqui	62,864	137	18	2	1,665,587	12,158	26.50	2.18
CME	Merritt	5,976	6	0	0	136,368	22,728	22.82	1.00
TME	Metchosin	4,057	4	0	0	176,674	44,169	43.55	.99
VMI	Midway	596	1	0	0	109,000	109,000	182.89	1.68
DMI	Mission	25,550	91	2	1	1,228,281	13,498	48.07	3.56
VMO	Montrose	1,193	1	0	0	10,257	10,257	8.60	.84
VNA	Nakusp	1,266	2	0	0	13,000	6,500	10.27	1.58
CNA	Nanaimo	56,331	116	4	0	1,035,164	8,924	18.38	2.06
CNE	Nelson	8,491	28	0	0	55,739	1,991	6.56	3.30
VND	New Denver	541	3	1	0	90,902	30,301	168.03	5.55
DNH	New Hazelton	824	7	0	0	2,646,662	378,095	3,211.97	8.50
CNW	New Westminster	42,693	105	2	0	4,009,175	38,183	93.91	2.46
DNC	North Cowichan	19,959	23	0	0	2,050,235	89,141	102.72	1.15
DNS	North Saanich	8,925	10	0	0	50,371	5,037	5.64	1.12
CNO	N. Vancouver City	38,257	80	4	0	1,023,677	12,796	26.76	2.09
DNV	N. Vancouver Dist.	74,138	98	2	0	1,289,285	13,156	17.39	1.32
DOB	Oak Bay	18,012	22	1	0	113,312	5,151	6.29	1.22
VOL	Oliver	2,131	11	0	0	225,560	20,505	105.85	5.16
VOS	Osoyoos	2,953	6	0	0	64,023	10,671	21.68	2.03
TPA	Parksville	6,861	4	0	0	84,519	21,130	12.32	.58
DPE	Peachland	3,222	5	0	0	23,060	4,612	7.16	1.55
VPE	Pemberton	469	2	0	0	10,000	5,000	21.32	4.26
CPE	Penticton	25,920	52	2	0	3,371,035	64,828	130.06	2.01
DPI	Pitt Meadows	10,325	12	1	0	372,563	31,047	36.08	1.16
CPA	Port Alberni	17,731	51	4	1	861,751	16,897	48.60	2.88
VPO	Port Alice	1,312	3	0	0	10,700	3,567	8.16	2.29
CPC	Port Coquitlam	34,135	75	3	0	927,033	12,360	27.16	2.20
VPD	Port Edward	473	4	5	0	126,400	31,600	267.23	8.46
DPH	Port Hardy	5,091	10	1	0	67,721	6,772	13.30	1.96
VPM	Port McNeill	2,531	4	0	0	37,248	9,312	14.72	1.58

Location Code	Municipality	Population	Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
CPO	Port Moody	16,767	29	3	1	5,068,986	174,793	302.32	1.73
VPC	Pouce Coupe	792	5	0	0	17,599	3,520	22.22	6.31
DPR	Powell River	12,573	31	1	1	748,454	24,144	59.53	2.47
CPG	Prince George	65,632	194	0	3	3,677,157	18,954	56.03	2.96
CPR	Prince Rupert	15,998	33	8	4	861,202	26,097	53.83	2.06
TPR	Princeton	2,637	3	0	0	59,993	19,998	22.75	1.14
VQB	Qualicum Beach	4,175	2	0	0	6,390	3,195	1.53	.48
CQU	Quesnel	8,258	37	0	0	257,194	6,951	31.14	4.48
CRE	Revelstoke	7,592	19	0	0	265,912	13,995	35.03	2.50
DRI	Richmond	121,841	154	5	1	3,089,169	20,060	25.35	1.26
CRO	Rossland	3,468	6	0	0	1,529,500	254,917	441.03	1.73
DSA	Saanich	92,390	146	12	0	6,327,067	43,336	68.48	1.58
VSA	Salmo	967	2	1	0	86,181	43,091	89.12	2.07
DSM	Salmon Arm	11,591	39	3	0	281,542	7,219	24.29	3.36
VSD	Sayward	410	7	1	0	153,064	21,866	373.33	17.07
VSE	Sechelt	5,465	10	0	0	56,125	5,613	10.27	1.83
TSI	Sidney	9,461	18	1	0	17,830	991	1.88	1.90
VSI	Silverton	245	1	0	0	22,225	22,225	90.71	4.08
TSM	Smithers	4,840	23	0	0	132,477	5,760	27.37	4.75
DSP	Spallumcheen	4,494	5	0	0	404,000	80,800	89.90	1.11
DSD	Sparwood	3,798	22	2	0	143,051	6,502	37.66	5.79
DSQ	Squamish	11,001	48	3	0	750,043	15,626	68.18	4.36
DST	Stewart	1,185	4	0	0	917,000	229,250	773.84	3.38
DSL	Summerland	8,749	15	0	0	407,760	27,184	46.61	1.71
DSY	Surrey	223,475	486	28	4	8,300,358	17,079	37.14	2.17
VTA	Tahsis	876	3	0	0	17,453	5,818	19.92	3.42
VTR	Taylor	604	5	0	0	36,627	7,325	60.64	8.28
VTE	Telkwa	865	3	0	0	23,425	7,808	27.08	3.47
DTE	Terrace	10,745	27	0	0	945,360	35,013	87.98	2.51
CTR	Trail	7,760	16	0	0	350,727	21,920	45.20	2.06
DTU	Tumbler Ridge	4,231	13	1	0	59,950	4,612	14.17	3.07
VUC	Ucluelet	1,549	3	0	0	6,887	2,296	4.45	1.94
VVA	Valemount	1,058	3	0	0	12,661	4,220	11.97	2.84
CVA	Vancouver	455,227	1,540	138	7	30,788,968	19,993	67.63	3.38
VVF	Vanderhoof	3,121	10	0	1	180,242	18,024	57.75	3.20
CVE	Vernon	21,106	57	2	0	313,075	5,493	14.83	2.70
CVI	Victoria	68,550	239	14	3	1,745,714	7,304	25.47	3.49
TVR	View Royal	5,909	9	1	0	146,100	16,233	24.72	1.52
VWA	Warfield	1,749	1	0	0	4,884	4,884	2.79	.57
DWV	West Vancouver	38,788	86	3	0	862,527	10,029	22.24	2.22
DWH	Whistler	2,825	21	1	0	999,096	47,576	353.66	7.43
CWR	White Rock	15,615	20	2	0	633,020	31,651	40.54	1.28
CWI	Williams Lake	10,226	27	1	0	1,779,103	65,893	173.98	2.64
VZE	Zeballos	249	1	0	0	6,168	6,168	24.77	4.02

Note: Municipalities not included did not report fires in 1990.

Fire Losses in Non-Municipal Areas

Location Code	Community	Fires	Injured	Dead	$ Loss	Loss/Fire
Non-Municipal Areas With Fire Protection						
NAN	Anglemont	1	0	0	2,000	2,000
NAR	Arras	1	0	0	13,922	13,922
NBA	Barrier	2	0	0	110,771	55386
NBB	Bella Bella	1	0	0	35,000	35,000
NBC	Beaver Creek	2	0	0	47,416	23,708
NBD	Bamfield	1	0	0	25,000	25,000
NBG	Burns Lake	3	0	0	65,500	21833
NBI	Bowen Island	4	0	0	37,600	9400
NBK	Buckhorn	2	0	0	147,000	73500
NBM	Beaverly	2	0	0	115,000	57500
NBN	Bear Lake	1	0	0	405	405
NBO	Boston Bar	1	0	0	2,500	2,500
NBP	Blackpool	4	0	0	82,500	20,625
NBT	Britannia Beach	3	1	0	66,840	22820
NBU	Bouche Lake	4	1	0	14,453	3,613
NBV	Blue River	2	0	0	69,000	34,500
NBW	Bowhorn Bay	1	0	0	35,000	35,000
NBX	Barlow Creek	3	0	0	95,800	31933
NCA	Campbell River	7	1	0	372,500	53,214
NCB	Cowichan Bay	3	2	0	167,000	55,667
NCC	Cherry Creek (Vanc. Island)	8	0	0	193,298	24,162
NCE	Creston	7	1	1	163,328	23,333
NCH	Coal Harbor	1	0	0	6,000	6,000
NCJ	Crescent Valley	5	0	0	11,000	2,200
NCL	Cultus Lake	1	0	0	6,761	6,761
NCN	Canyon Lister	4	0	0	40,600	10,150
NCO	Coombs	1	0	0	700	700
NCQ	Courtenay	8	1	0	639,822	79,978
NCT	Christina Lake	1	0	0	41,000	41,000
NCX	Clearwater	12	1	0	79,574	6,631
NDA	Dawson Creek	3	0	0	4,500	1,500
NDU	Duncan	6	0	0	69,242	11,540
NDW	Dashwood	1	0	0	11,700	11,700
NEA	East Sooke	1	0	0	16,000	16,000
NEB	Eagle Bay	3	0	0	108,275	36,092
NED	Edgewater	2	0	0	4,000	2,000
NER	Errington	2	0	0	75,000	37,500
NFH	Fairmont Hot Springs	1	0	0	1,000	1,000
NFN	Fort Nelson	11	0	0	225,640	20,513
NGB	Gillies Bay	4	0	0	8,700	2,175
NGI	Gabriola Island	5	0	0	280,345	56,069
NGN	Gibsons	2	0	0	62,442	31,221
NGP	Garden Bay/Pender Harbor	1	0	0	3,000	3,000
NGR	Grand Forks	1	0	0	1,000	1,000
NHB	Honeymoon Bay	3	0	0	108,400	36,133
NHF	150 Mile House	1	0	0	8,000	8,000
NHI	Hornby Island	3	0	0	429,000	143,000

Location Code	Community	Fires	Injured	Dead	$ Loss	Loss/Fire
NJA	Fort St. James (rural)	4	0	0	48,153	12,038
NKA	Kaleden	1	0	0	5,000	5,000
NKB	Kootenay Boundary (rural)	7	0	0	124,681	17,812
NKE	Kemano	1	0	0	871	871
NKP	Kamloops	2	0	0	155,700	77,850
NKR	Kersley	3	0	0	9,710	3,237
NLF	Langford	22	1	1	182,677	8,304
NLK	Loon Lake	1	0	0	40,000	40,000
NLV	Lantzville	4	0	0	199,724	49,931
NMA	Malahat	3	0	0	555,700	185,233
NMB	Mill Bay	10	0	0	350,727	35,073
NMF	Manning Park	1	0	0	55,000	55,000
NMI	Mayne Island	10	0	0	399,343	39,934
NMP	Madeira Park	1	0	0	9,887	9,887
NMR	Lower Nicola	3	0	0	152,129	50,710
NNA	Nanoose Bay	7	1	0	125,904	17,986
NNB	North Bend	1	1	0	6,000	6,000
NNC	North Cedar	7	2	0	143,600	20,514
NND	Nelson	1	0	0	200	200
NNF	North Fraser	4	0	0	103,500	25,875
NNO	North Oyster	4	1	0	170,500	42,625
NNR	Naramata	1	0	0	88,357	88,357
NNS	North Shore	1	0	0	100	100
NNV	North Vancouver District	1	0	0	90,000	90,000
NOB	Okanagan Indian Reserve	1	0	0	49,341	49,341
NOE	108 Mile House	4	0	0	194,920	48,730
NOF	Okanagan Falls	5	0	0	166,800	33,360
NOL	Okanagan Landing	1	0	0	120,000	120,000
NOP	Otter Point	5	1	0	126,204	25,241
NOR	Oyster River	4	0	0	122,911	30,728
NPA	Passmore	5	0	0	188,316	37,663
NPC	Pass Creek	1	0	0	25,000	25,000
NPD	Parksville	1	0	0	5,565	5,565
NPE	Penticton	2	0	0	2,175	1,088
NPR	Port Renfrew	2	0	0	10,022	5,011
NQC	Queen Charlotte City	1	1	0	8,000	8,000
NQI	Quadra Island	1	0	0	130,000	130,000
NQR	Quesnel	23	3	0	147,016	6,392
NRC	Roberts Creek	8	0	0	132,145	16,518
NRD	Ranchero/Deep Creek	1	0	0	120,900	120,900
NRE	Revelstoke	1	0	0	2,789	2,789
NRH	Radium Hot Springs	3	0	0	333,500	111,167
NRO	Robson	1	0	0	356,602	356,602
NSC	Scotch Creek	1	0	0	1,000	1,000
NSD	Skidgate	1	0	0	600	600
NSC	Shawnigan Lake	1	0	0	9,366	9,366
NSF	Salt Spring Island	16	0	2	369,295	23,081
NSH	South Hazelton	3	0	0	64,200	21,400
NSJ	Sicamous	10	2	0	236,726	23,673
NSM	Sahtlam	1	0	0	50,000	50,000
NSO	Sproat Lake	3	0	0	71,000	23,667

Location Code	Community	Fires	Injured	Dead	$ Loss	Loss/Fire
NSQ	Sandspit	2	0	0	12,159	6,080
NSR	Shirley	6	0	0	12,439	2,073
NST	Sointula	2	0	0	3,577	1,789
NSV	Savona	1	0	0	2,500	2,500
NSW	Swan Lake	6	1	0	43,113	7,186
NSZ	Sooke	18	1	0	393,626	21,868
NTA	Squamish	1	0	0	5,233	5,233
NTB	Flood, Laidlaw, Silver Crk.	1	0	0	25,000	25,000
NTD	Tomslake & District	1	0	0	264	264
NTH	Thornhill	10	1	0	379,214	37,921
NTL	Tiell	1	0	0	25,000	25,000
NTP	Tappen	1	0	0	80,000	80,000
NTY	Tarry's	3	0	0	109,426	36,475
NUB	Union Bay	1	0	0	711	711
NUE	University Endowment Lands	34	0	0	137,313	4,039
NVV	Vavenby	3	0	0	110,000	36,667
NWE	Westbank	13	2	0	303,200	23,323
NWI	Windemere	1	0	0	2,000	2,000
NWK	Williams Lake	17	1	0	528,141	31,067
NWL	Wyndell-Lakeview	3	0	0	160,000	53,333
NWN	Winfield	1	0	0	350,000	350,000
NWO	Woss	1	0	0	10,000	10,000
NWS	Wells	3	0	0	2,200	733
NYA	Yale	1	0	0	2,000	2,000
NYM	Ymir	1	0	0	77,000	77,000

Note: Communities not included did not report fires in 1990.

Fire Losses in Non-Municipal Areas

Location Code	Regional District	Fires	Injured	Dead	$ Loss	Loss/Fire
Non-Municipal Areas With No Fire Protection (grouped together into respective regional districts)						
RAC	Alberni-Clayoquot	14	0	0	523,259	37,376
RBN	Bulkeley-Nechako	37	0	0	961,647	25,990
RCA	Capital	4	0	0	8,338	2,085
RCB	Cariboo	71	0	0	1,897,319	26,723
RCC	Central Coast	9	0	0	271,104	30,123
RCF	Central Fraser Valley	4	0	0	4,874	1,219
RCK	Central Kootenay	30	0	0	450,596	15,020
RCL	Columbia-Shuswap	27	0	0	384.444	14,786
RCO	Central Okanagan	19	0	0	55,965	2,946
RCS	Comox-Strathcona	32	1	0	404,327	12,635
RCV	Cowichan Valley	6	0	0	23,731	4,746
RDA	Dewdney-Allouette	9	0	0	621,090	69,010
REK	East Kootenay	43	0	1	2,050,642	47,689
RFC	Fraser-Cheam	28	3	0	331,483	11,839
RFG	Fraser-Fort George	45	0	0	900,533	20,467
RGV	Greater Vancouver	14	1	0	60,705	4,336
RKI	Kitimat-Stikine	22	0	1	258,782	11,763
RKO	Kootenay Boundary	9	0	0	56,458	6,273
RMW	Mount Waddington	6	0	0	4,235	705
RNA	Nanaimo	10	0	0	38,940	3,894
RNO	North Okanagan	17	0	0	506,638	29,802
ROS	Okanagan-Similkameen	28	0	0	379,404	13,550
RPL	Peace River-Liard	72	0	0	2,729,188	38,439
RPR	Powell River	5	0	0	8,300	1,660
RSC	Skeena-Queen Charlotte	5	0	0	184,817	36,963
RSL	Squamish-Lillooet	17	1	0	377,456	23,591
RST	Stikine	7	0	0	489,050	69,864
RSU	Sunshine Coast	4	0	0	314,463	78,615
RTN	Thompson-Nicola	68	1	1	1,703,166	26,612

FIRE LOSSES AND CASUALTIES BY MONTH

Month	Fires	$ Loss	Injured	Dead
January	590	$12,309,733	21	6
February	530	11,657,460	45	10
March	637	15,924,569	42	6
April	580	15,085,199	31	4
May	663	13,328,885	46	2
June	610	9,710,723	34	4
July	679	15,494,683	60	2
August	678	16,624,782	39	1
September	631	16,798,671	39	4
October	604	11,992,978	35	1
November	557	11,331,812	33	2
December	696	21,221,884	39	9
Totals	**7,455**	**$171,481,379**	**464**	**51**

STATUS, AGE, AND GENDER OF CASUALTY

	Fires	Injured	Dead
Status of Casualty			
Firefighter	79	131	0
Civilian	298	325	51
Unknown	5	8	0
Age of Casualty			
Unknown	25	27	0
Birth - 2 years	9	9	1
3 - 4 years	5	4	1
5 - 6 years	1	1	0
7 - 8 years	3	3	0
9 - 10 years	2	2	0
11 - 12 years	4	3	1
13 - 14 years	7	8	0
15 - 16 years	7	8	1
17 - 18 years	9	8	1
19 - 20 years	14	14	1
21 - 30 years	100	103	10
31 - 40 years	108	122	7
41 - 50 years	77	82	5
51 - 60 years	38	38	7
61 - 70 years	21	14	7
71 - 80 years	18	14	5
81 - 90 years	7	4	4
Gender of Casualty			
Male	292	361	27
Female	108	103	24

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
AO	**Act or Omission**				
AO000	Act or omission unknown	1,328	90	9	63,554,488
	Arson or Set Fire				
AO011	Arson or set fire - financial gain	6	1		171,000
AO012	Arson or set fire - cover-up crime	78	2		2,480,021
AO013	Arson or set fire - political, religious, riot, civil commotion	2			122,207
AO014	Arson or set fire - revenge , spite	29	2		2,008,610
AO015	Arson or set fire - mental disorder, attempted suicide, suicide	17	3		490,552
AO016	Arson or set fire - vandalism, mischief	351	11		4,417,412
AO017	Arson or set fire - intimidation	9			117,300
AO018	Arson or set fire - motive unknown or unclassified	467	21	4	12,458,360
AO019	Suspected set fire - motive unknown or unclassified	526	14	1	15,041,420
	Misuse of Source of Ignition				
AO021	Smokers' material	450	46	15	8,690,095
AO022	Thawing	22	1		170,490
AO023	Inadequate control of "open" fire	53	2		591,119
AO024	Child playing with matches, lighter, etc.	134	20		2,468,523
AO025	Welding or cutting too close	66	1		2,158,199
AO026	Torch too close	49	5		784,051
AO029	Misuse of source of ignition - unclassified	32			151,367
	Misuse of Material Ignited				
AO031	Fuel spilled accidentally	43	9		727,108
AO032	Improper fueling technique	14	3		49,675
AO033	Flammable liquid to kindle fire	3	1		7,409
AO034	Cleaning, washing parts	8	2		128,040
AO035	Improper container, metal	1			10,000
AO036	Improper container, plastic	4			50,631
AO037	Combustible placed too close to heat	84	7		1,103,301
AO038	Improper storage	19	1		279,109
AO039	Misuse of material ignited - unclassified	24	6		485,392
	Mechanical or Electrical Failure				
AO041	Part failure, leak, break	796	29		6,866,223
AO042	Automatic control failure	58	4		629,342
AO043	Manual control failure	4			1,650
AO044	Electrical short circuit	695	40	1	9,652,664
AO046	Part worn out	47	1		470,598
AO049	Mechanical or electrical failure - unclassified	321	12	1	4,031,791
	Construction, Design or Installation Deficiency				
AO051	Design deficiency	27			253,297
AO052	Construction deficiency	42			297,901
AO053	Installed too close to combustible	74		1	1,011,606

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
AO054	Other installation deficiency	25	1		302,944
AO055	Overfusing	3		2	127,000
AO056	Suspected faulty connections involving aluminum wiring	6			16,373
AO057	Suspected faulty connections involving copper wiring	7	4		261,417
AO059	Construction design or installation deficiency - unclassified	26		2	127,000
	Misuse of Equipment				
AO061	Overfuelling	12	1		97,166
AO069	Misuse of equipment - unclassified	45		2	428,754
	Human Failing				
AO071	Asleep	37	8	2	312,634
AO072	Temporary loss of judgement suspected (includes panic)	12	2		315,249
AO073	Physical or mental disability	5	2		121,200
AO074	Accident	250	19	2	6,220,194
AO075	Suspected impairment by use of alcohol, drugs or medication	27	5	3	744,178
AO076	Asleep - suspected use of alcohol, drugs or medication	19	5		196,138
AO077	Ignorance of hazard	448	40	4	8,501,463
AO078	Distracted, preoccupied	231	26		2,344,695
AO079	Human failing - unclassified	124	9	2	2,358,379
	Vehicle Accident				
AO081	Automobile accident	36	3		219,309
AO082	Industrial truck accident	8			234,816
AO083	Other road vehicle accident	1			1,841
AO085	Watercraft accident	3	1		57,887
AO089	Vehicle accident - unclassified	17			66,893
	Miscellaneous Act or Omission				
AO091	Chimney fire (masonry)	49			108,394
AO092	Chimney fire (factory-built)	4			122,816
AO099	Misc. act or omission unclassified	176	4		2,971,545
	TOTALS	**7,455**	**464**	**51**	**171,489,371**
BH	**Building Height**				
BH000	Building height unknown	79	1		766,220
BH001	01 storey or 3m	1,770	128	22	62,203,327
BH002	02 stories or 6m	1,403	168	20	60,372,605
BH003	03 to 04 stories or 9m to 12m	502	87	7	28,324,670
BH004	05 to 06 stories or 15m to 18m	51	5		357,031
BH005	07 to 12 stories or 21m to 36m	44	9		176,469
BH006	13 to 24 stories or 40m to 73m	41	9		221,653
BH007	25 to 49 stories or 75m to 149m	10	3		59,800
BH009	Not applicable eg. vehicle outside area, etc.	3,555	54	2	18,999,604
	TOTALS	**7,455**	**464**	**51**	**171,481,379**

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
FH	**Form of Heat**				
FH000	Form of heat unknown	2,764	119	15	84,415,765
FH001	Spark: Ember	217	11	2	5,262,995
FH002	Spark: Electrical	927	67	3	12,730,992
FH003	Spark: Static electrical	42	3		2,911,721
FH004	Direct flame, flue gases	1,432	91	7	30,936,145
FH005	Friction heat	64	9		876,088
FH006	Hot object, direct heat by conduction or radiation	1,372	98	10	19,446,486
FH007	Spontaneous ignition	68	4		3,855,336
FH008	Heat from smoker's material	466	57	14	9,238,797
FH009	Form of heat - unclassified	103	5		1,807,054
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
FS	**Fire Service**				
FS000	Fire service unknown	998	2		6,484,869
FS001	Full time fire department	2,995	227	23	59,982,657
FS002	Volunteer fire department	852	47	3	31,561,209
FS003	Combined full time and volunteer fire department	2,270	183	22	61,898,300
FS004	Police acting as full time firefighers	18	2	1	298,545
FS005	Combined police and fire department	1			1,000
FS006	Combined police and volunteer firefighters	2			8,300
FS007	Fire service - contract to others	8			128,775
FS008	No fire service	288	3	2	9,893,250
FS009	Fire service - unclassified	23			1,224,474
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
FU	**Fuel or Energy**				
FU000	Fuel or energy unknown	1,856	107	17	73,768,364
FU001	Coal, wood	614	20	3	18,277,473
FU002	Fuel, kerosene	80	6		2,324,040
FU003	Gasoline	1,053	31		7,599,673
FU004	Natural gas or other fuel gas	444	50	2	15,525,668
FU005	Cigarette, cigar, pipe, match, lighter	1,043	82	16	18,203,998
FU006	Electricity	1,722	137	11	25,026,489
FU007	Lightning	17			269,970
FU008	Exposure fire	335	5	2	4,794,956
FU009	Fuel or energy - unclassified	291	26		5,690,748
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
ID	**Initial Detection**				
ID000	Initial detection unknown	1,059	5	2	6,864,979
ID001	Smoke alarm device	147	18	1	3,098,131
ID002	Smoke detector device	96	9		4,363,384
ID003	Heat alarm device	9	2		167,379
ID004	Heat detector device	29	7		1,700,562
ID005	Automatic sprinkler system	55	7		986,823
ID006	Automatic system - other than sprinkler	16	4	1	8,872,161
ID007	Visual sighting	5,930	391	47	143,152,087

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
ID008	None	56			429,168
ID009	Initial detection - unclassified	58	21		1,846,705
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
IG	**Igniting Object (Source of Ignition)**				
IG000	Igniting object unknown	1,895	116	15	75,041,634
IG001	No igniting object	94	1		4,317,941
	Cooking Equipment				
IG002	Stove, range: Top burner area - fire in pan	275	32	3	2,268,183
IG003	Stove, range: Top burner area - fire in deep fat fryer or pot	151	28		2,517,253
IG004	Stove, range: Top burner area - other circumstances	82	1	3	1,306,598
IG005	Oven of stove, range	46	1		310,895
IG006	Chafing dish, fondue	1			400
IG007	Deep fat fryer - separate appliance	19	3		844,946
IG011	Fry pans, grills not on stove	5			6,893
IG012	Other cooking unit	20	1		264,999
IG013	Open fired broiler - fixed type	3			15,441
IG014	Open fired broiler - portable type	55	11		452,896
IG015	Food warming appliance	35	1		500,280
IG016	Toaster, waffle iron	17			359,461
IG019	Cooking equipment - unclassified	33			364,526
	Heating Equipment				
IG021	Central heating unit	72	6		2,848,854
IG022	Service water heater	32	5		471,726
IG023	Space heater - stationary	120	4	1	2,647,498
IG024	Space heater - portable	54	6	1	1,488,593
IG025	Fireplace	89			840,290
IG026	Chimney, masonry	89	1	1	909,813
IG027	Flue pipe, vent connector	20			466,428
IG028	Chimney, factory-built, metal	52			990,640
IG029	Heating equipment - unclassified	40	2	1	823,672
	Appliances				
IG031	Television	9	1	2	372,500
IG032	Radio, phonograph, tape-recorder	7			271,622
IG033	Clothes dryer	89	4		4,205,157
IG034	Washing machine	8	3		19,714
IG035	Air conditioning and refrigeration: Central	5	1		3,238
IG036	Air conditioning or dehumidifier	4	1		68,240
IG037	Refrigeration unit: Individual	23			384,237
IG038	Pressing iron, ironing machine	4			48,900
IG039	Portable generator	2			11,001
IG041	Lawnmower	5			4,450
IG043	Electric blanket, heating pad	9	1		203,233
IG044	Incinerator	2			1,300
IG049	Appliance - unclassified	46	21		1,567,203

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Electrical Distribution Equipment				
IG051	Electrical wiring, cable: Permanent	407	13		4,104,069
IG052	Transformer	14			1,941,996
IG053	Switch gear	8	1		155,948
IG054	Panelboard, switchboard	26			393,437
IG055	Switch, outlet	19	2		160,735
IG056	Electric, wiring, cable: Temporary	100	13	2	2,231,288
IG058	Battery, rectifier, charger	137	1		695,466
IG059	Electrical distribution equipment - unclassified	52	1		303,717
	Other Electical Equipment				
IG061	Electric motor: 1 hp and over	39	2		1,580,430
IG062	Electric motor: Under 1 h.p.	10			2,786,015
IG063	Electronic equipment: Communications	2			33,826
IG065	Incandescent lamp	53	9		984,744
IG066	Fluorescent lamp	4			16,001
IG069	Other electrical equipment - unclassified	53			462,667
	Smoker's Material and Open Flame				
IG071	Smoker's material: Cigarette, cigar, pipe, matches, lighter	504	56	16	9,339,640
IG072	Match, lighter: Not used in conjunction with smoking	637	36	2	12,770,895
IG073	Lamp	10	1		231,859
IG074	Candle, taper	59	5		473,674
IG075	Cutting torch	29	1		1,296,384
IG076	Welding equipment	50	1		1,539,616
IG077	Torch: Other than cutting, welding	82	6	1	4,620,406
IG078	Hot ashes, embers	77	1		1,801,409
IG079	Smoker's material or "open" flame - unclassified	55	4	1	834,401
	Exposure				
IG081	Structure: Attached	36		2	758,899
IG082	Structure: Detached	116	2		1,956,261
IG083	Lumber yard	1			2,500
IG084	Outside storage container, tank	2			4,674
IG085	"Open" fire	40	3		344,267
IG086	Forest, tree	5			49,716
IG087	Grass, bush	33	2		169,649
IG089	Exposure - unclassified	88	1		526,288
	Miscellaneous				
IG090	Internal combustion engine	849	25		4,028,851
IG091	Heat treatment equipment	2	5		32,680
IG092	Industrial oven	6	1		51,992
IG093	Printing equipment, photographic equipment	2	2		2,500
IG094	Explosive	4			100,021
IG095	Fireworks	41			118,470

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
IG096	Bearing, belting, conveyor, brake	33			307,410
IG097	Machinery, equipment: Commercial and industrial	42	3		782,760
IG098	Chemical reaction	38	1		3,295,693
IG099	Igniting object - unclassified	178	15		2,989,536
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
IN	**Incident Report**				
IN006	Alarm fire: LAFC report updated by insurance report	1,121	94	6	40,831,298
IN007	No-alarm fire: LAFC report updated by insurance report	76	2	1	1,874,996
IN008	Alarm fire: Insurance report only	263			2,343,943
IN009	No-alarm fire: Insurance report only	720			2,927,362
IN010	Alarm fire: reported by LAFC only	4,992	360	43	116,809,384
IN011	No alarm fire: reported by LAFC only	283	8	1	6,694,396
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
LV	**Level Origin**				
LV000	Level of origin unknown	134	6	4	9,532,260
LV001	Basement, sub-basement	481	59	5	17,125,067
LV002	Crawl space, under structure	59	7		3,225,893
LV003	Ground floor, grade level	2,358	211	33	92,899,408
LV004	2nd storey	494	77	7	19,638,187
LV005	3rd storey	100	22		2,516,828
LV006	4th to 12th story, inclusive	47	13	1	286,123
LV007	Over 12 storeys	6	1		45,954
LV008	Roof level, includes concealed roof space, attic	184	15		5,954,859
LV009	Level of origin - not applicable	3,592	53	1	20,256,800
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
MI	**Material First Ignited**				
MI000	Material first ignited unknown	2,030	114	19	81,653,415
MI001	Roof covering: Wood	52			1,058,147
MI002	Roof covering: Other than wood	15			58,294
MI003	Exterior wall covering, surface, finish	190	8	2	4,681,037
MI004	Exterior trim & appurtenance	30	1		231,383
MI005	Floor covering: Wood	52	2		1,390,378
MI006	Floor covering: Linoleum, tile, plastic	21	9		211,197
MI007	Floor covering: Carpet, rug	80	3	2	1,599,653
MI008	Structural component: Floor, ceiling, roof	92	13		3,963,920
MI009	Structural component: Wall	77	3	1	4,600,980
MI010	Interior wall covering: wood, fibreboard (high density)	110	8		3,761,217
MI011	Interior wall covering: fibreboard (low denisty)	28	2		857,716
MI012	Interior wall covering: plastic	13	1		81,776
MI013	Ceiling covering: wood, fibreboard (high density)	26		1	655,263

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
MI014	Ceiling covering: fibreboard (low density)	8			115,957
MI015	Ceiling covering: plastic	5			3,343
MI016	Insulation: Wood product	24			363,426
MI017	Insulation: Plastic	64	1		610,642
MI018	Insulation: Mineral	26	1		404,617
MI019	Structural components, finish materials - unclassified	37			372,696
	Furniture, Furnishings				
MI020	Furniture: furnishings	1			9,038
MI021	Furniture (upholstered)	211	40	10	3,301,581
MI022	Furniture: Wood (not upholstered)	31		1	591,664
MI023	Furniture: Plastic (not upholstered)	3			13,233
MI025	Mattress, pillow	111	23	4	5,661,506
MI026	Bedding	119	19	1	2,018,261
MI027	Drapery	34	2		639,462
MI028	Broom, mop, brush	7			5,155
MI029	Furniture, furnishings - unclassified	14			157,287
	Clothing, Textiles				
MI031	Clothing: Cotton, on a person	24	2		427,365
MI033	Clothing: Synthetic fibre, on a person	53	7	3	746,983
MI034	Fabric: Cotton	31	1		390,546
MI035	Fabric: Wool	2			3,336
MI036	Fabric: Synthetic fibre	22	1		595,187
MI038	Tarpaulin	9			151,750
MI039	Clothing, textiles - unclassified	43	2	2	628,049
	Wood, Paper Products				
MI041	Wood	77	1		1,295,774
MI042	Wood shavings	71	3		5,519,931
MI044	Paper, packing material	75	3		1,159,526
MI045	Paper decoration	10	5		491,432
MI046	Wastepaper	73	3		1,676,485
MI047	Cardboard	63	2		1,255,037
MI048	Paper stock	87	5		1,829,083
MI049	Wood, paper products - unclassified	75			720,396
	Flammable, Combustible Liquids				
MI051	Gasoline	872	42	1	9,953,483
MI052	Fuel oil	48	3		1,483,806
MI053	Combustible liquid: Flashpoint 37.8C +	61			1,873,578
MI054	Flammable liquid: Flashpoint less than 37.8C	26	6		543,379
MI055	Paint, varnish	17	6		317,579
MI056	Cooking oil, fat	382	53	4	4,670,575
MI057	Tar, asphalt	13			134,170
MI058	Polish, wax	9	2		24,405
MI059	Flammable liquids - unclassified	66	2		4,185,544

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Flammable Gases				
MI061	Natural gas	15	1		635,379
MI062	Propane/butane air mixture	43	8		374,805
MI063	Propane, butane, L.P.G	65	12		594,187
MI065	Acetylene	4			11,982
MI069	Flammable gases - unclassified	16	4		274,879
	Chemicals, Plastics, Metals				
MI072	Cellulose nitrate	8			44,421
MI074	Oxidizing material	1			1,200
MI073	Plastics	163	3		1,314,003
MI075	Magnesium and alloys	1			500
MI076	Titanium, zirconium and alloys	1			4,000
MI077	Rubber, natural or synthetic	55	2		162,309
MI079	Chemicals - unclassified	20			78,730
	Agricultural, Forestry Products				
MI081	Fibres	10	1		178,001
MI082	Grain, flour, starch	6			6,558
MI083	Hay, straw	31			837,711
MI084	Tree, shrub	60			92,195
MI085	Felled timber	8			140,700
MI086	Grass, brush, leaves	35			276,386
MI087	Fertilizer, manure	1			30,000
MI088	Christmas tree	4	4		136,080
MI089	Agricultural, forestry products - unclassified	4	1		358,400
	Miscellaneous				
MI091	Coal, coke	5	1		5,075
MI092	Creosote deposits in chimney, flue	79			239,148
MI095	Insulation: Electric	449	12		1,842,418
MI096	Garbage, trash, rubbish	389	5		1,152,442
MI098	Artificial tree	2	2		23,100
MI097	Oily rags	18			383,991
MI099	Miscellaneous material - unclassified	242	9		3,164,146
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
OA	**Area of origin**				
OA000	Area of origin unknown	281	8	3	17,123,608
	Means of Egress				
OA001	Hallway, corridor	70	7		3,768,288
OA002	Stairway, exterior	22			456,810
OA003	Stairway, interior	36	8	4	1,398,104
OA005	Lobby, entrance way	70	13		1,347,068
OA006	Elevator	5			7,500
OA009	Means of egress - unclassified	23			347,786
	Assembly, Family, Sales Area				
OA011	Large assembly area: Fixed seats	5	2		2,123,500

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
OA012	Large assembly area: Non-fixed seats	2	2		3,800
OA013	Small assembly area	19			301,564
OA014	Lounge, living room	405	66	15	10,553,018
OA015	Sales, show room area	14			702,875
OA016	Library, museum	2			15,300
OA017	Sports facility	7			58,918
OA018	Covered court, atrium, mall, concourse	3			'26,291
OA019	Assembly, sales area - unclassified	3			66,075
	Function Area				
OA021	Sleeping (under 5 occupants)	386	79	11	14,008,360
OA022	Sleeping (5 or more occupants)	6	1		42,700
OA023	Dining area	33	6		1,503,169
OA024	Bar, beverage area	8	1		498,550
OA025	Washroom, locker room	98	4	1	6,248,671
OA026	Office	33	1		1,255,731
OA027	Laboratory	8	1		710,350
OA028	Display windows	1			29,791
OA029	Printing, photographic reproduction	1	2		1,000
OA030	Electronic equipment communication room	3			8,000
OA031	Kitchen, cooking area	780	83	8	12,589,694
OA032	Laundry area	144	11	1	5,593,543
OA033	First-aid, treatment area	1			300
OA034	Operating room	1			15,000
OA035	Electronic equipment room	12			352,146
OA036	Performance area	1			1,000
OA037	Backstage, dressing room	1			1,300
OA038	Process, manufacturing area	29	5		8,201,675
OA039	Function area - unclassified	35		1	1,727,889
	Storage Area (inside building)				
OA041	Product storage area	34	7		7,367,819
OA042	Closet, lockers	42	3	1	786,662
OA043	Supplies, equipment area	44	5		1,869,182
OA044	Records storage area	2	1		83,000
OA045	Shipping, receiving area, mail room	9	5		973,450
OA046	Trash, rubbish area	21	2	1	4,753,346
OA047	Vehicle (garage)	210	19		4,761,256
OA048	Agricultural products storage	24	1		1,335,856
OA049	Storage area - unclassified	77	4	1	2,143,169
	Service Facilities				
OA051	Dumbwaiter, conveyor shaft	3			48,206
OA052	Service shaft	3	2		29,000
OA053	Chute	3	1		12,700
OA054	Pipe, piping	1			5,000
OA055	Duct: Heating, air conditioning	7			107,450
OA056	Duct: Cooking, exhaust	2	1		45,000
OA057	Chimney: Masonry	80			419,824
OA058	Chimney: Factory built metal	53			677,354
OA059	Service facilities - unclassified	4			178,525

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Service and Equipment Area				
OA061	Machinery room	36	1		947,756
OA062	Heating equipment room	86	7		3,321,194
OA063	Transformer vault	16	4		632,216
OA064	Incinerator room	2			670
OA065	Maintenance shop	57	7	1	4,526,998
OA066	Paint shop	3			281,871
OA067	Test cell	2	1		16,251
OA069	Service and equipment area - unclassified	28	4		1,300,498
	Structural Area				
OA071	Crawl space	36	2		1,574,581
OA072	Exterior balcony	49	5		937,774
OA073	Ceiling and floor assembly	33			1,805,319
OA074	Ceiling and roof/ceiling space	73	13		4,132,218
OA075	Wall Assembly	44	3		1,437,140
OA076	Exterior wall	152	4	2	4,881,928
OA077	Exterior roof	70	1		813,519
OA078	Awning, canopy	2			4,297
OA079	Structural area - unclassified	32	5		1,051,898
	Vehicle Area				
OA082	Vehicle: Engine area	1,444	19		6,211,850
OA083	Vehicle: Fuel area	290	2		1,846,114
OA084	Vehicle: Control area	166	2		1,613,860
OA085	Vehicle: Passenger area	516	7	1	2,679,839
OA086	Vehicle: Cargo area	125	6		737,787
OA089	Vehicle area - unclassified	228	5		1,654,378
	Miscellaneous				
OA091	Open area	141	5		898,006
OA092	Court, patio, terrace	52	3		679,833
OA093	Parking area	63	1		764,518
OA094	Storage area	35			762,158
OA095	Trash, rubbish area	322	1		1,530,652
OA099	Outside area - unclassified	185	5		7,770,083
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
PR	**Property Classification**				
	Assembly				
PR111	Legitimate theatre	1			1,000
PR112	Motion picture theatre	1			200
PR119	Theatre, studio, auditorium - unclassified	1			3,000
PR123	Ice rink	4			17,863
PR124	Amusement centre	3			69,500
PR125	Swimming facility	6			16,262
PR126	Ballroom, gymnasium	4			2,390,381
PR129	Amusement, recreation place - unclassified	6			13,200
PR131	Nursery school, kindergarten	3			2,950

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR132	Elementary school	28	1		332,151
PR133	High school	32	1		2,032,900
PR137	Rehabilitation school	2			40,300
PR138	College, university	7			8,000
PR139	Educational facility - unclassified	2			3,750
PR141	Church, chapel	6	2		778,750
PR143	Church hall	4			572,300
PR144	Funeral parlour	1			1,000
PR149	Church, funeral parlour - unclassified	1			1,000
PR151	City club	7			247,350
PR152	Country club	3			10,950
PR153	Yacht Club	2			3,100
PR159	Social, sport club - unclassified	11			80,787
PR161	Library	1			500
PR162	Museum	2			3,000
PR171	Restaurant	79	8		4,714,200
PR172	Night club	7		1	1,648,324
PR173	Tavern	6			697,918
PR174	Lunchroom, drive-in	5			73,451
PR179	Food or beverage establishment - unclassified	9			985,841
PR181	Airport passenger terminal	1			300
PR183	Bus terminal	1			5,000
PR184	Railway station	1			75
PR191	Court room	1			13,500
	Institutional				
PR211	Prison: Penitentiary for men	2			1,700
PR213	Jail	1			500
PR217	Police station, with lock-up facilities	1			100
PR221	Home for the aged with nursing staff	8	1		9,026
PR222	Home for the aged without nursing staff	1			2,988
PR229	Home for the aged - unclassified	1	1		8,000
PR233	Children's day care	1			10,000
PR241	Hospital	11	1		11,750
PR242	Sanatorium, sanatarium, nursing or convalescent home	2			2,600
PR244	Mental hospital	4			7,900
PR249	Hospital, sanatorium, clinic - unclassified	1			500
PR299	Miscellaneous institutional - unclassified	1			6,000
	Residetial				
PR311	Dwelling, year-round use (1-family)	1,777	161	30	41,289,993
PR312	Dwelling, seasonal use - in season (1-family)	25	1		393,593
PR313	Dwelling, seasonal use - off season (1-family)	6			219,000
PR314	Dwelling, year-round use (2-family)	113	24	1	3,576,388
PR315	Dwelling, seasonal use - in season (2-family)	1			5,000
PR317	Dwelling, farm (1-family)	14			739,399
PR318	Dwelling, farm (2-family)	2		1	63,691

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR319	Dwelling, 1 & 2 family - unclassified	24	1	1	556,032
PR321	Apartment, townhouse: 1-2 units with business	20	2		481,458
PR322	Apartment, townhouse: 1-2 units without business	13			163,679
PR323	Apartment, townhouse: 3-20 units with business	56	6		1,580,333
PR324	Apartment, townhouse: 3-20 units without business	167	20		2,885,866
PR325	Apartment, townhouse: Over 20 units	260	61	3	7,055,436
PR329	Apartment, townhouse- unclassified	20			49,221
PR331	Rooming, boarding, lodging house: 4 to 8 roomers or boarders	6	1		63,137
PR332	Rooming, boarding, lodging house: 9 to 15 roomers or boarders	4	4		140,197
PR339	Rooming, boarding, lodging house - unclassified	5	1		359,000
PR341	Hotel, inn, lodge: Year-round use	72	23	1	6,380,227
PR343	Hotel, inn, lodge: Seasonal use - off season	2			430,000
PR349	Hotel, inn, lodge - unclassified	1			56,000
PR351	Motor hotel, motel: Fewer than 3 units	2			12,000
PR352	Motor hotel, motel: 3-20 units	12			53,446
PR353	Motor hotel, motel: Over 20 units	15	2	1	198,200
PR359	Motor hotel, unclassified	1			3,740
PR361	Dormitory: School, college, university dormitory	1			1,001,445
PR365	Dormitory: Convent, monastery or other religious dormitory	1			1,700
PR366	Dormitory: Bunkhouse and workers barrack	2			95,000
PR369	Dormitory - unclassified	1			25,000
PR371	Mobile home (1 or 2 family unit)	100	11	2	3,180,864
PR373	Travel trailer	31	1	3	223,721
PR374	Camping trailer	19	2		79,152
PR375	Motor home	64	1		641,886
PR376	Truck with camper	7			60,095
PR377	Tent	2			8,050
PR379	Mobile home, trailer - unclassified	41	4	1	543,876
PR391	Children's play house	1			800
PR399	Residential miscellaneous - unclassified	11	2		142,051
	Business and Personal Service				
PR411	General business office	24			1,187,500
PR412	Civic, federal or provincial government office	4	11		2,144,004
PR413	Bank	6			2,450
PR414	Medical, health, research or scientific office	7			78,083
PR415	Engineering, architectural and technical office	3			3,500
PR419	Office - unclassified	3			245,614
PR421	Barber or hairdressing establishment	4			306,257
PR422	Beauty parlour	1			1,600
PR429	Personal service property - unclassified	3			32,100

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR439	Electronic equipment - unclassified	1			8,000
PR499	Miscellaneous business and personal service - unclassified	8			230,904
	Mercantile				
PR511	Supermarket	6			8,520
PR512	Market, grocery store	10			486,050
PR513	Specialty food store	7			306,123
PR514	Liquor, beverage store	2			1,350
PR519	Food, beverage sale - unclassified	5			62,703
PR521	Clothing store	10	1		443,670
PR522	Clothing accessories, shoe store	1			3,797
PR526	Dry goods store	1	3	4	400,000
PR529	Textile, wearing apparel sale - unclassified	2	1		15,843
PR531	Furniture store	3			16,022
PR532	Appliance store	2			620,223
PR533	Hardware store	1			2,350,000
PR535	Wallpaper, paint store	1			2,000
PR536	Rug, floor covering store	1			800
PR539	Furniture, appliance hardware sales - unclassified	3			354,968
PR541	Book, stationery store	1			600
PR542	Newsstand, tobacco shop	2	1		5,050
PR543	Drug store	1			200
PR545	Gift shop	1			76,000
PR547	Florist shop, greenhouse	1			15,479
PR549	Books, newspapers, drugs - unclassified	1			500
PR551	Hobby, toy shop	1			42,000
PR552	Dry goods store	1			92,881
PR559	Recreation, hobby supplies - unclassified	2			64,000
PR561	Furniture repair or upholstery, without sales	1			5,201
PR563	Laundry, self-service	8	3		470,015
PR564	Laundry, dry cleaner	4			184,188
PR567	Maintenance shop, general	3	1		149,693
PR569	Household repair - unclassified	1			35,000
PR571	Service station; public	9			145,100
PR573	Motor vehicle repairs	26	3		1,357,366
PR574	Florist shop	2			40,200
PR575	Motor vehicle accessory sales	3			23,188
PR577	Marine service station	3			130,500
PR578	Car wash facility	2			516,500
PR579	Motor vehicles, boats, sales and service - unclassified	6			505,048
PR581	Department store	1			80,000
PR582	Variety store - small	4			6,300
PR583	Variety store - large	1			5,000
PR584	Mail order store	1			1,000
PR585	Shopping mall - public areas	4			91,000
PR589	Department, variety store - unclassified	2			33,883
PR591	Professional supply sales	1			6,500
PR592	Trade supply sales	3	2		979,905

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR593	Builders supply sales	3			13,940
PR594	Restaurant supplies and services	1			50,000
PR599	Miscellaneous mercantile - unclassified	11	3		6,150,032
	Industrial Manufacturing Properties				
PR612	Hazardous chemicals manufacture	1			1,200
PR614	Plastic products manufacture	3			73,000
PR618	Asphalt, coal products manufacture	4			192,988
PR619	Chemicals, petroleum, paints, Plastics manufacture - unclassified	1			3,500
PR621	Sawmill, planing mill	69	2		11,185,768
PR623	Wood, cork products manufacture	3			1,201,800
PR624	Furniture, bedding manufacture	7	2		5,354,605
PR625	Paper, pulp, paperboard manufacture	8	1		115,750
PR626	Paper, pulp, paperboard products mfg.	1			600
PR627	Newspaper, magazine, printing and publishing	1			1,000
PR628	Printing, publishing	3	2		111,000
PR629	Wood, furniture, paper, printing manufacturing - unclassified	7			171,321
PR632	Basic nonferrous metals manufacture	1			5,000
PR633	Basic metal products manufacturing	11	1		285,087
PR634	Machinery manufacture	2			29,021
PR636	Electrical and electronic appliance manufacture	4			25,156
PR639	Metal, metal products, electrical equipment mfg. - unclassified	2			5,500
PR641	Slaughtering, preparation, preserving of meat	2	5		400
PR642	Dairy product manufacturing	2			33,216
PR644	Canning, preserving of fish, sea foods	1			20,000
PR645	Grain mill products manufacturing	4			234,800
PR646	Bakery product manufacturing	2			66,500
PR649	Food processing - unclassified	3			103,350
PR664	Textile finishing	1			500,000
PR672	Wearing apparel manufacturing	1	3		520,000
PR675	Fur products manufacture	1			1,300,000
PR677	Rubber, rubber products manufacturing	1			9,700
PR681	Shipbuilding and repairing of vessels over 20m	9			34,683
PR682	Boatbuilding and repairing of vessels 20m and under	4			1,244,510
PR689	Vehicles and related equipment - unclassified	10			220,603
PR691	Instrument manufacturing	1			2,000
PR696	Laundry and dry cleaning plant	4			3,511,800
PR697	Photographic film processing	1			200
PR699	Miscellaneous manufacturing - unclassified	5			8,700
	Industrial Storage Properties				
PR711	Seeds, beans, nuts, grain storage in bulk	2	1		62,500
PR712	Boxed, crated, or packaged agricultural products storage	2			420,500
PR715	Livestock storage	7			222,149

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR716	Agricultural supply storage	6			213,350
PR719	Agricultural products storage - unclassified	3			13,527
PR728	Fur, skin, or hair products storage	1	1		10
PR741	Flammable liquids tank storage	1			300
PR749	Flammable liquids, gases, petroleum products storage - unclassified	1			2,300
PR751	Lumber yards, building materials storage	3			107,000
PR753	Furniture storage	2			6,000
PR754	Fibre products storage	1			15,251
PR755	Rolled paper, newsprint storage	3			18,000
PR756	Paper and paper products storage	4			8,520
PR757	Felled timber, log storage	7			402,500
PR758	Pulpwood pile, cordwood storage	1			140
PR774	Machinery storage	2			359,091
PR775	Electrical appliances and supplies storage	1			200
PR776	Finished metal products storage	1			62,000
PR779	Metal products, machinery, electrical appliance storage - unclassified	3			32,200
PR781	Garage: Individual residential parking	90	3	1	867,379
PR782	Garage: General auto parking	19	3		182,214
PR784	Heavy machine and equipment storage	5			203,466
PR785	Marinas, boat and ship storage	2			1,500
PR787	Railway storage	2			3,000
PR789	Vehicle storage - unclassified	2			20,833
PR791	General warehouse	15	3		2,335,413
PR792	Mineral materials, bagged cement, lime, gypsum, etc. storage	2	1		1,615,000
PR794	Freight terminal	1	1		10,000
PR795	Glass and glass products storage	1			2,500
PR797	Ice storage	1			1,600,000
PR798	Pier, wharf, storage in open area	1			1,000
PR799	Miscellaneous storage properties - unclassified	20			1,740,542
	Outdoor Property, Vehicles				
PR811	Brush, grass and light ground cover	4			1,475
PR813	Trees	37	1		29,420
PR814	Fences, poles, railroad ties	24			25,562
PR815	Trash and rubbish	315			50,770
PR816	Mailboxes	1			100
PR818	Forest, standing timber	1			60,000
PR819	Outdoor property - unclassified	52	3		56,794
PR821	Bridge, trestle, overpass, elevated road and railway	3			182,407
PR831	Buildings under construction	17			517,592
PR832	Buildings under demolition	2			5,100
PR833	Construction, other than buildings	1			50
PR835	Vacant property	49			1,491,172
PR836	Unoccupied property	10			244,379
PR837	Contractors' sheds	2			3,200
PR838	Building under major renovation	3			89,000

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR839	Under construction or demolition - unclassified	8	1		480,510
PR841	Motor craft (20m and under LOA)	32	9		603,306
PR842	Vessel (under 1,000 gross tons)	3	1		55,200
PR843	Ship, passenger	1			3,000
PR846	Ship, cargo	2	2		176,000
PR847	Non self-propelled vessel	2			300,500
PR848	Commercial fishing vessel	4			67,500
PR849	Watercraft - unclassified	13			64,637
PR853	Railway car: Freight	4	1		120,100
PR856	Roadbed maintenance equipment car	1			22,225
PR861	Automobile	2,529	21	1	8,364,059
PR862	Bus, trackless trolley	12			34,425
PR863	Truck, compressed or lp gas tank	2			4,000
PR864	Truck, flammable liquid, chemical tank	4			11,710
PR865	Truck, general	95	2		1,145,477
PR866	Motorcycle	20			38,380
PR867	Wagon, Non-motorized hauling vehicle	9			20,738
PR868	Industrial or commercial trailer	59			1,241,759
PR869	Ground transport vehicle - unclassified	30	2		362,024
PR881	Construction equipment	11	2		246,275
PR882	Farm tractor and equipment	29	1		281,168
PR883	Crane, mobile and fixed	1	1		100,000
PR884	Industrial truck: Fork lift and material handling	13			124,171
PR886	Snowmobile	4			12,094
PR889	Special vehicle - unclassified or unknown	25			1,534,568
PR891	Pier, wharf	1			250,000
PR899	Miscellaneous special - unclassified	2			82,500
	Miscellaneous Property				
PR911	Laboratory: Chemical, biological and medical	3			15,200
PR914	Laboratory: Radioactive material	4			5,900
PR916	Laboratory: Agricultural	2			1,100
PR917	Laboratory: General research	1	1		1,000
PR919	Laboratories, unclassified or unknown	2	1		700,250
PR921	Poultry, egg production	1			202,429
PR923	Storage barn	18	1		634,798
PR924	Animal barn, cattle, pigs, horses	10			817,810
PR925	Crops, orchards, straw stacks	2			25,200
PR929	Farm facility - unclassified	5			171,000
PR931	Shed	64	3		1,082,923
PR932	Privy	18			17,403
PR933	Toll station or booth	2			33,000
PR935	Non-metallic mineral product manufacturing	5			4,369
PR938	Telephone booth	5			4,458
PR939	Miscellaneous outbuildings - unclassified	36			264,474
PR941	Electrical light and power generating plant	1			12,000
PR942	Electric light & power distribution system	10	4		1,748,900
PR945	Heating plant	1			500
PR946	Water supply system	3			29,635
PR947	Sanitary service	2			14,100

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR949	Utility - unclassified	6			160,210
PR952	Glass manufacturing	2	5		1,285,000
PR955	Cement manufacturing	1			421,000
PR956	Cement batch mixing plant	2	1		21,837
PR974	Telephone exchange	1			500
PR979	Communications - unclassified	2			21,000
PR996	Groundskeeping equipment	6			4,000
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
SD	**Smoke Detector Alarm Operation**				
SD000	No smoke alarm installed	1,726	212	28	79,315,192
SD001	Alarm activated - assisted occupants in evacuating	318	59	3	19,592,325
SD002	Alarm activated - inaudible	8	1		794,544
SD003	Alarm activated - occupants unable to respond	17	2	1	988,225
SD004	Alarm activated - unnecessary to evacuate	185	6		3,083,327
SD005	Alarm activated - occupant action unknown	87	15	2	4,394,096
SD006	Alarm not activated - unsuitable location	89	2		751,775
SD007	Alarm not activated - no or dead battery	84	13	1	2,128,321
SD008	Alarm not activated - AC power not connected or off	15	2		341,984
SD009	Alarm not activated - mechanical failure	18	2		1,137,182
SD010	Alarm not activated - unknown	326	37	5	15,635,189
SD011	Not applicable eg. outside area	3,248	68	2	23,046,516
SD099	Smoke alarm operation unknown	1,334	45	9	20,272,703
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
SP	**Sprinkler Protection**				
SP000	Sprinkler protection unknown	1,056	4		7,096,228
SP001	Complete sprinkler protection - supervised or standard watchman	90	9		1,850,624
SP002	Complete sprinkler protection - alarm to fire department	50	2		455,249
SP003	Complete sprinkler protection - unsupervised, local alarms only	103	18	1	2,395,456
SP004	Partial sprinkler protection - supervised or standard watchman	27	2		5,225,625
SP005	Partial sprinkler protection - alarm to fire department	38	5		1,209,686
SP006	Partial sprinkler protection - unsupervised, local alarms only	160	19		5,739,557
SP007	No sprinkler protection	2,908	349	49	129,370,596
SP008	Not applicable, eg. vehicle, outside area, etc.	3,016	56	1	18,081,596
SP009	Sprinkler protection - unclassified	7			56,500
	TOTALS	**7,455**	**464**	**51**	**171,481,379**
TI	**Time of Day**				
TI000	Time 0000-0059 hrs	277	19	1	10,302,904
TI001	Time 0100-0159 hrs	272	23	1	12,371.871

CODE	DESCRIPTION		FIRES	INJURED	DEAD	$ LOSS
TI002	Time 0200-0259 hrs		279	36	2	12,724,412
TI003	Time 0300-0359 hrs		311	26	7	13,744,882
TI004	Time 0400-0459 hrs		247	23	4	10,194,322
TI005	Time 0500-0559 hrs		176	18	7	10,234,348
TI006	Time 0600-0659 hrs		155	13	1	4,040,431
TI007	Time 0700-0759 hrs		172	9	3	4,093,892
TI008	Time 0800-0859 hrs		230	16	3	3,509,862
TI009	Time 0900-0959 hrs		262	12	2	2,970,419
TI010	Time 1000-1059 hrs		267	20	2	9,096,133
TI011	Time 1100-1159 hrs		311	23		5,095,986
TI012	Time 1200-1259 hrs		332	15	2	7,017,204
TI013	Time 1300-1359 hrs		298	7	1	6,883,766
TI014	Time 1400-1459 hrs		370	16	2	6,719,730
TI015	Time 1500-1559 hrs		375	17	1	6,088,409
TI016	Time 1600-1659 hrs		420	25	2	5,495,919
TI017	Time 1700-1759 hrs		410	24		5,639,377
TI018	Time 1800-1859 hrs		382	20	1	4,672,867
TI019	Time 1900-1959 hrs		358	23	2	5,637,146
TI020	Time 2000-2059 hrs		318	27		5,282,739
TI021	Time 2100-2159 hrs		286	16	1	5,209,380
TI022	Time 2200-2259 hrs		298	18	2	4,461,694
TI023	Time 2300-2359 hrs		333	18	4	7,281,331
TI099	Time unknown		316			2,712,355
		TOTALS	**7,455**	**464**	**51**	**171,481,379**
WD	**Weekdays**					
WD001	Sunday		1,031	61	5	23,819,673
WD002	Monday		927	65	12	20,015,603
WD003	Tuesday		1,014	68	7	19,396,068
WD004	Wednesday		1,000	56	6	30,622,555
WD005	Thursday		1,091	62	10	24,098,932
WD006	Friday		1,140	49	2	20,309,667
WD007	Saturday		1,252	103	9	33,218,881
		TOTALS	**7,455**	**464**	**51**	**171,481,379**

Circumstances Contributing to Fire Casualties

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$LOSS
	Condition of Casualty				
FC010	Condition of casualty unknown	112	112	23	11,525,322
FC011	Asleep at time of fire	56	54	14	6,959,806
FC012	Bedridden or other physical handicap	4	5	1	171,034
FC013	Impairment by alcohol, drugs or medication	23	16	7	777,358
FC014	Awake or no physical or mental impairment at time of fire	161	231	5	15,654,911
FC016	Too young to react to fire	6	7		315,450
FC017	Mental handicap (senile)	1	1		700
FC019	Condition of casualty - unclassified	34	37	1	1,148,267
	Action of Casualty				
FC020	Action of casualty unknown	131	123	37	13,088,339
FC021	Injured while attempting to escape	50	68	3	7,493,967
FC022	Over exertion or heart attack	1	1		175,000
FC023	Voluntarily entered or remained for rescue purpose	19	20	1	736,086
FC024	Voluntarily entered or remained for fire fighting	111	161		13,196,646
FC025	Voluntarily entered or remained to save personal property	17	17		636,159
FC026	Loss of judgement or panic	21	19	3	401,192
FC027	Received delayed warning	7	7		143,710
FC028	Did not act	14	10	6	291,512
FC029	Action of casualty - unclassified	34	38	1	775,513
	Ignition of Fabric				
FC030	Ignition of clothing or fabric not applicable	301	402	35	27,347,999
FC031	Outer clothing	26	27	2	451,406
FC032	Sleepwear	5	3	2	54,400
FC033	Underclothing	5	5		50,825
FC035	Bedding and bed linen	9	6	3	274,712
FC036	Mattress or pillow	7	4	3	165,853
FC037	Upholstered furniture	6	3	3	211,850
FC038	Rugs	3	3		19,546
FC039	Ignition of clothing or fabrics - unclassified	12	11	3	719,350
	Type of Fabric				
FC040	Type of material or fabric not applicable	300	389	37	27,3378,803
FC041	Cotton	13	10	3	148,225
FC045	Synthetic fibre	10	8	2	386,418
FC046	Mixture fibres	32	29	6	502,024
FC048	Plastic or plastic foam	5	5	1	38,600
FC049	Type of fabric or material ignited - unclassified	11	10	2	760,961
	Cause of Failure to Escape				
FC050	Cause of Failure to escape unknown	163	172	32	15,649,121
FC051	Trapped by: rapid spread of fire/smoke through vertical openings	10	12	5	583,021

Circumstances Contributing to Fire Casualties

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$LOSS
FC052	Trapped by: rapid spread of fire/smoke through horizontal openings	27	31	10	6,337,154
FC053	High flame spread of combustible finish of walls, ceilings or floors	9	10	1	896,934
FC054	Building collapse	1	2		190,000
FC055	Falling debris	8	11		1,305,284
FC056	Explosion	20	27		308,126
FC057	Exit locked, blocked or obstructed	2	1	1	1,500,000
FC058	Outdoor fire, includes forest, brush	4	5		900
FC059	Cause of failure to escape unknown	144	193	2	15,459,083

SUMMARY OF FIRE LOSSES BY PROPERTY GROUPS

Property Class. Codes	Property Group	No. of Fires	Per Cent of Total Fires	$ Loss	Per Cent of Total $ Loss	No. Injured	Per Cent of Total Injured	No. Dead	Per Cent of Total Dead
	Assembly								
131-139	Educational	74	1.0	2,420,051	1.4	2	0.4	0	–
172-173	Nightclub, tavern	13	0.2	2,346,242	1.4	0	–	1	2.0
171, 174, 179	Restaurant, eating establishment	93	1.3	5,773,492	3.4	8	1.7	0	–
111-129, 141-169 and 181-199	Others	68	0.9	4,229,018	2.5	2	0.4	0	–
	Institutional								
221-229	Home for aged	10	0.1	20,014	0.0	2	0.4	0	–
231-249	Hospital, day-centre, home	19	0.3	32,750	0.0	1	0.2	0	–
211-219, 299	Other	5	0.1	8,300	0.0	0	–	0	–
	Residential								
311-319	One- & two-family dwelling	1,962	26.3	46,843,096	27.3	187	40.3	32	62.7
321-329	Apartment	536	7.2	12,215,993	7.1	89	19.2	3	5.9
331-359	Hotel, motel, rooming house	120	1.6	7,695,947	4.5	31	6.7	3	5.9
361-369	Dormitory	5	0.1	1,123,145	0.7	0	–	0	–
371	Mobile home	100	1.3	3,180,864	1.9	11	2.4	2	3.9
373-376	Recreational vehicle	121	1.6	1,004,854	0.6	4	0.9	3	5.9
372, 377-399	Others	55	0.7	694,777	0.4	6	1.3	1	2.0
411-499	**Business and personal service**	64	0.9	4,240,012	2.5	11	2.4	0	–
511-599	**Mercantile**	166	2.2	16,348,338	9.5	18	3.9	4	7.8
611-699	**Industrial manufacturing**	180	2.4	26,572,758	15.5	16	3.4	0	–
711-799	**Industrial storage**	212	2.8	10,528,385	6.1	13	2.8	1	2.0
	Miscellaneous								
811-829, 891	Outdoor property, pier, wharf	438	5.9	656,528	0.4	4	0.9	0	–
841-849	Watercraft	57	0.8	1,270,143	0.7	12	2.6	0	–
851-859	Rail transport and equipment	5	0.1	142,325	0.1	1	0.2	0	–
861	Automobile	2,529	33.9	8,364,059	4.9	21	4.5	1	2.0
862-869, 881-889	Other grd transport & special vehicle	314	4.2	5,156,789	3.0	8	1.7	0	–
871-879	Aircraft	0	–	–	–	–	–	–	–
831-839,899 and 911-999	Others	309	4.1	10,613,499	6.2	17	3.7	0	–
		7,455	**100.0**	**171,481,379**	**100.0**	**464**	**100.0**	**51**	**100.0**

ARSON LOSSES BY PROPERTY GROUP

Property Class. Codes	Property Group	No. of Arson Fires		Incidence of Arson within Prop. Group (%)	% of ALL Arson Fires in B.C.	Dollar Loss		% of Total Arson $ Loss
		1989	1990	1990	1990	1989	1990	1990
	Assembly							
131-139	Educational	38	49	66.2	3.3	2,223,263	529,901	1.42
172-173	Nightclub, tavern	3	3	23.1	0.2	30,660	107,324	0.29
171,174,179	Restaurant, eating establishment	16	15	16.1	1.0	1,348,239	2,694,394	7.22
111-129,141-169 and 181-199	Others	35	34	50.0	2.3	782,843	3,343,406	8.96
	Institutional							
221-229	Home for aged	1	0	–	–	25,000	–	–
231-249	Hospital, day-centre, home	3	8	42.1	0.5	4,200	18,950	0.05
211-219,299	Others	3	3	60.0	0.2	130,050	2,200	0.01
	Residential							
311-319	One- & two-family dwelling	224	155	7.9	10.4	5,628,705	5,237,344	14.04
321-329	Apartment	96	122	22.8	8.2	1,813,969	2,320,562	6.22
331-359	Hotel, motel, rooming house	32	23	19.2	1.5	630,447	466,818	1.25
361-369	Dormitory	4	3	60.0	0.2	9,000	1,028,145	2.76
371	Mobile home	8	8	8.0	0.5	94,604	219,500	0.59
373-376	Recreational vehicle	9	22	18.2	1.5	56,679	186,254	0.50
372,377-399	Others	11	10	18.2	0.7	40,050	96,501	0.26
411-499	**Business and personal service**	27	25	39.1	1.7	1,170,455	1,357,159	3.64
511-599	**Mercantile**	54	53	32.1	3.6	1,704,907	4,038,057	10.83
611-699	**Industrial manufacturing**	26	21	11.6	1.4	2,684,968	4,145,630	11.11
711-799	**Industrial storage**	104	85	40.1	5.7	6,473,359	3,453,005	9.26
	Miscellaneous							
811-829,891	Outdoor property, pier, wharf	205	169	38.6	11.4	388,102	499,905	1.34
841-849	Watercraft	9	8	14.0	0.5	336,300	321,806	0.86
851-859	Rail transport and equipment	0	0	0	0	–	–	–
861	Automobile	388	499	19.7	33.6	1,779,084	2,732,587	7.33
862-869,881-889	Other grd transport & special vehicle	31	37	11.8	2.5	230,660	483,654	1.30
871-879	Aircraft	0	0	–	–	–	–	–
831-839,899 and 911-999	Others	86	133	42.9	9.0	1,236,300	4,023,720	10.79
		1,413	**1,485**		**100.0**	**28,821,784**	**37,306,822**	**100.00**

FIRES WITH LOSS OF $500,000 OR MORE

DATE	LOCATION	PROPERTY CLASSIFICATION	ACT OR OMISSION	$ LOSS	INJ	DEAD
900102	Langley City	Furniture, fixture, bedding manufacturing	Suspected set fire - motive unknown or unclass.	595,327	0	0
900107	Saanich	Dry cleaning plant	Act or Omission - cannot be determined	3,500,000	0	0
900208	Vancouver	Nightclub	Act or Omission - cannot be determined	1,490,000	0	1
900221	Invermere	Office, Civic, Federal or Provincial Govt.	Act or Omission - cannot be determined	1,128,450	0	0
900321	Lilloet	Ballroom, gymnasium	Suspected set fire - motive unknown or unclass.	2,267,881	0	0
900323	Lake Cowichan	Church hall	Miscellaneous - Unclassified	570,000	0	0
900414	Port Moody	Motel, Inn, Lodge, Year round use	Smokers' material	4,885,584	3	1
900416	Kelowna	Furniture, fixture, bedding manufacturing	Cannot be dtermined	1,650,000	0	0
900513	Prince George	Glass manufacturing	Suspected set fire - motive unknown or unclass.	1,255,000	0	0
900522	Surrey	Appliance store	Suspected set fire - motive unknown or unclass.	572,000	0	0
900528	Duncan	Hotel, Inn, Lodge - Year round use	Cannot be determined	800,000	4	0
900602	Penticton	Motor Vehicles, boats, Sales/Service Unclass.	Welding or cutting too close	500,000	0	0
900626	Rossland	High School	Act or Omission - cannot be determined	1,500,000	0	0
900707	Abbotsford	Sawmill, planing mill, wood products mill	Act or Omission - cannot be determined	858,827	2	0
900719	Williams Lake	Electric light and power distribution system	Electrical short circuit	1,500,000	0	0
900725	Vancouver	Warehouse, general use	Act or Omission - cannot be determined	1,100,000	0	0
900725	Vancouver	Ice Storage	Act or Omission - cannot be determined	1,600,000	0	0
900727	Matsqui	High School	Torch to close to	500,000	1	0
900730	Campbell River	Office, Civic, Federal or Provincial Govt.	Electrical short circuit	1,195,354	11	0
900811	Vancouver	Furniture, fixture, bedding manufacturing	Act or Omission - cannot be determined	3,064,897	0	0
900813	Vancouver	Trade supply sales	Arson or set fire - motive unknown or unclass.	876,000	2	0
900828	North Vancouver District	Dwelling, year-round use, single family	Act or Omission - cannot be determined	500,000	0	0
900829	Saanich	Dormitory, school, college, or university	Arson or set fire - motive unknown or unclass.	1,001,445	0	0
900829	Vancouver	Storage, unclassified	Act or Omission - cannot be determined	1,523,030	0	0
900910	Burnaby	Wearing apparel manufacturing	Act or Omission - cannot be determined	520,000	3	0
900915	Peace River-Liard R.D.*	Mineral materials, bagged (lime, cement, other)	Arson or set fire, vandalism or mischeif	1,612,000	0	0
900915	Vancouver	Mercantile, miscellaneous	Act or Omission - cannot be determined	2,158,426	1	0
900919	Vancouver	Mercantile, miscellaneous	Act or Omission - cannot be determined	3,000,000	2	0
900922	Maple Ridge	Sawmill, planermill, wood products mfg.	Welding or Cutting too close	1,000,000	0	0

DATE	LOCATION	PROPERTY CLASSIFICATION	ACT OR OMISSION	LOSS	INJ	DEAD
900929	Langley City	Apartment, townhouse, without business	Part failure, leak, break	1,115,100	8	0
901010	Vancouver	Laboratory, unclassified	Act or Omission - cannot be determined	700,000	1	0
901018	Langley District	Boat building shop, vessels 20m & under	Arson or set fire - Revenge, spite	1,193,060	0	0
901025	North Cowichan	Wood, cork manufacturing	Mechanical, Electrical failure, Malfunction (uncl.)	1,200,000	0	0
901031	Surrey	Restaurant	Arson or set fire - cover up crime	783,000	0	0
901107	Stewart	Food or beverage establishment, unclassified	Act or Omission - cannot be determined	500,000	0	0
901112	Terrace	Restaurant	Act or Omission - cannot be determined	505,000	0	0
901114	Penticton	Hardware store	Ignorance of hazard	2,350,000	0	0
901204	Burnaby	Dwelling, year-round use, single family	Human failing - unclassified	500,000	0	0
901213	Langley District	Fur products manufacturing	Act or Omission - cannot be determined	1,300,000	0	0
901221	New Westminster	Apartment, townhouse, more than 20 units	Thawing	2,925,000	0	0
901221	Campbell River	Car wash facility	Suspected set fire - motive unknown or unclass.	514,000	0	0
901230	Fort St. James	Sawmill, planermill	Act or Omission - cannot be determined	5,000,000	0	0

* This fire occurred in a rural area in the Peace River-Liard Regional District

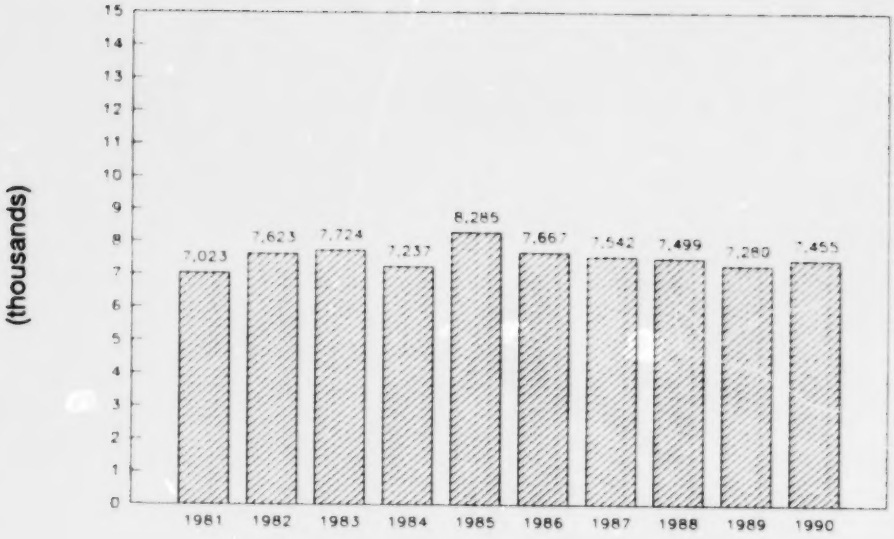
10-YEAR PROPERTY FIRE LOSS COMPARISON, 1981 - 1990

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Number of Fires	7,023	7,623	7,724	7,237	8,285	7,667	7,542	7,499	7,280	7,455
Dollar Loss	$115,709,786	$157,296,688	$131,932,474	$108,859,185	$131,932,474	$109,834,964	$117,159,528	$119,633,561	$181,071,119	$171,481,379
Loss per Fire	$16,476	$20,634	$17,046	$15,042	$15,924	$14,326	$15,534	$15,953	$24,872	$23,002
Population (thousands)*	2,744.0	2,783.0	2,823.9	2,870.7	2,892.5	2,889.2	2,925.7	2,983.8	3,055.6	3,131.7
No. of Fires/1000 Persons	2.56	2.74	2.74	2.52	2.86	2.65	2.58	2.51	2.38	2.38
Per Capita Loss	$42.17	$56.52	$46.62	$37.92	$45.61	$38.02	$40.04	$40.09	$59.26	$54.76
CPI Adjustment factor #	1.000	1.105	1.166	1.213	1.252	1.293	1.333	1.360	1.435	152.1
Loss Adjusted CPI	$115,709,786	$142,349,944	$112,915,520	$89,743,763	$105,377,375	$84,945,834	$87,891,619	$87,965,854	$126,18,964	$112,742,524
Loss/fire adj. by CPI	$16,476	$18,674	$14,619	$12,401	$12,719	$11,079	$11,654	$11,730	$17,332	$15,123
Per Capita Loss, adjusted by CPI	$42.17	$51.15	$39.99	$31.26	$36.43	$29.40	$30.04	$29.48	$41.30	$36.00
Persons Injured	244	375	404	396	398	343	398	380	387	464
Fire Deaths	76	73	83	79	60	58	42	59	58	51
Deaths/100,000 Persons	2.77	2.62	2.94	2.75	2.07	2.01	1.44	1.98	1.90	1.63

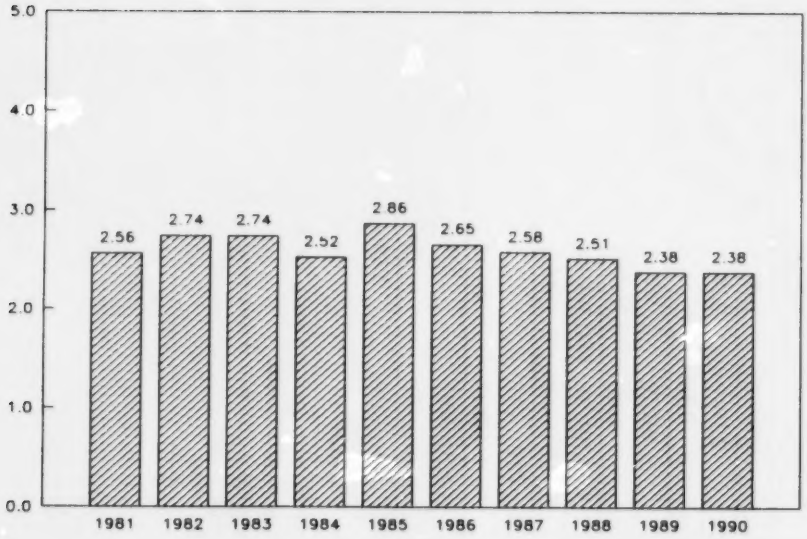
* Population statistics were provided by Statistics Canada. The figures for 1981 and 1986 are actual census figures. The others are estimates by Statistics Canada.

Adjustment Factor. In an effort to get a more realistic picture of losses over the years, some form of adjustment factor was neccessary to take inflation into account. We chose the Consumer Price Index for Vancouver with 1981 = 1.000.

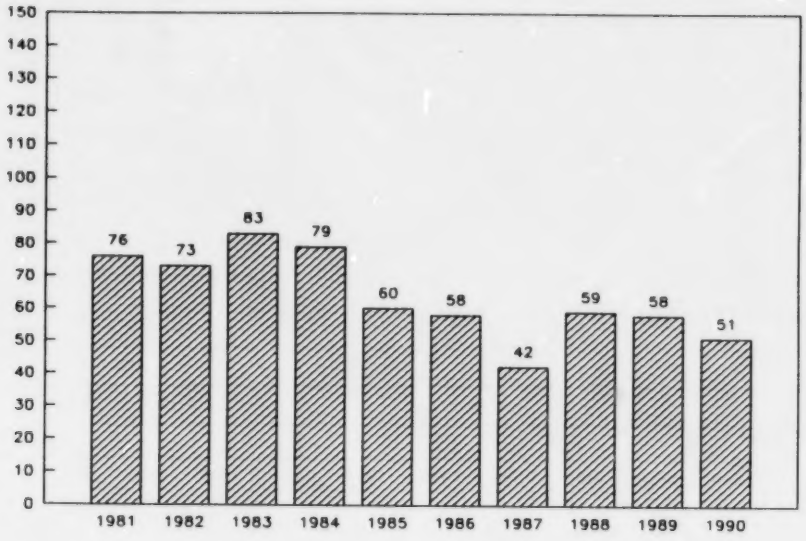
Number of Fires



Number of Fires Per 1,000 Persons

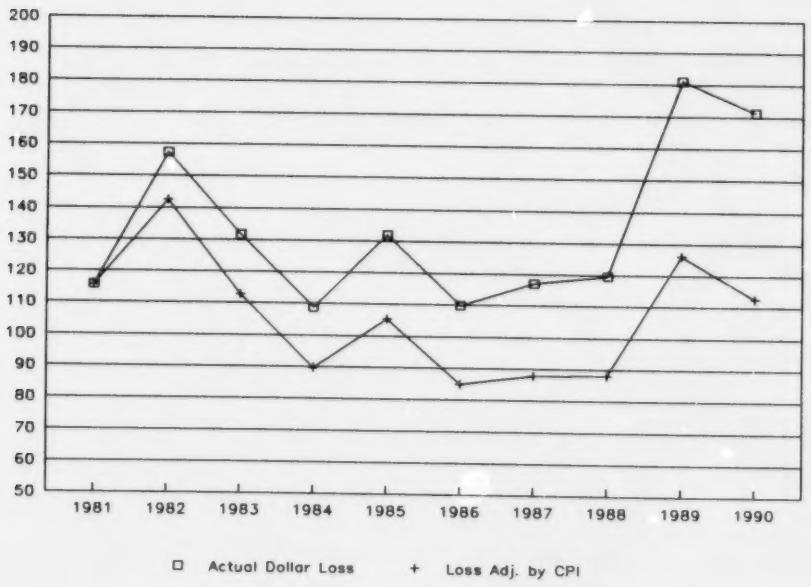


Fire Fatalities



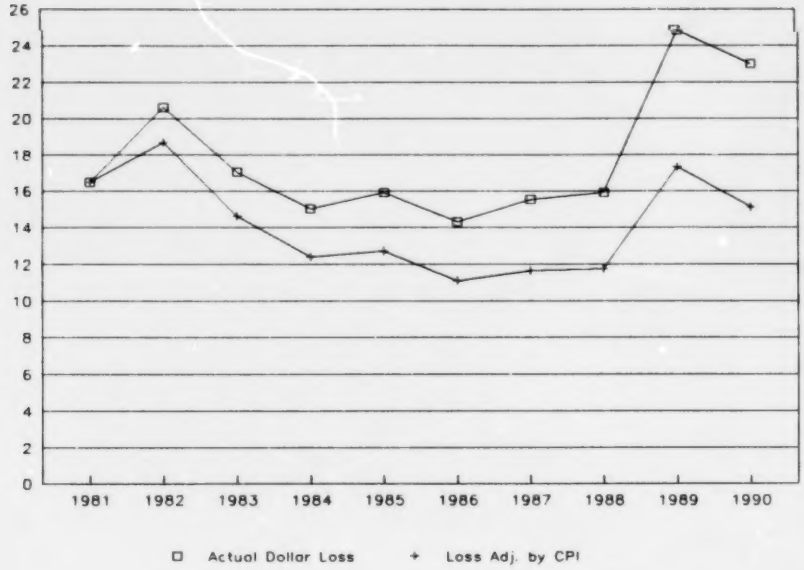
Actual and Adjusted Dollar Losses

(in millions)



Actual and Adjusted Average Loss Per Fire

(in thousands)



Actual and Adjusted Per Capita Loss